ABSTRACT OF THE DISCLOSURE

A system for carrying two channels of data over a single physical

connection. In multi-node systems, data packets are divided into flits with flits from

two channels being interleaved and carried by a single physical connection. Once

the flits are transmitted, they are reassembled into packets in order to be carried

5   by a processor bus. Controllers for the channel communicate to minimize

"bubbles" observed during packet assembly by the processor bus. Thus, the data

is transferred in two different types of resource sharing paradigms.